

Dongfeng Cummins Curve and Datasheet

Engine Type: ISDe185 31(Bus)

Curve Number: FR92154

Rev00 Date of Issue: 05/20/2007



Dongfeng Cummins Engine Co.,Ltd

Engine Performance Curve FR92154

EURO 3

Engine Model: ISDe185 31

Engine Configuration: D323002BX03

Advertised Power: 136 kW @ 2500 rpm

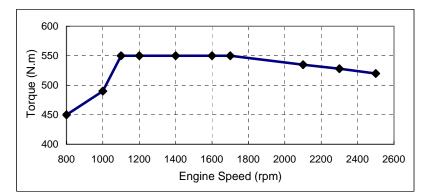
CPL: 1989

185 PS @ 2500 rpm

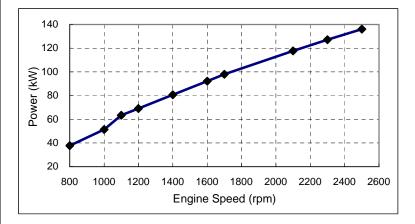
Peak Torque: 550 N.m @ 1400 rpm

Displacement: 4.5 L Cylinders: 4 Bore: 107 mm Stroke: 124 mm Aspiration: Turbocharged & Charge Air Cooled

Fuel System: Bosch (HPCR)



Torque						
rpm	N.m					
800	450					
1000	490					
1100	550					
1200	550					
1400	550					
1600	550					
1700	550					
2100	535					
2300	528					
2500	520					



Power						
rpm	kW					
800	38					
1000	51					
1100	63					
1200	69					
1400	81					
1600	92					
1700	98					
2100	118					
2300	127					
2500	136					

Performance data shown is nominal, and is to 80/1269/EEC(as amended) conditions of 990mbar barometric pressure and 25 deg C air intake temperature.

All data are based on the engine operating with fuel system, water pump, lubricating oil pump and with inle restriction and exhaust restriction at or below datasheet limits. Not included are compressor,fan,alternator, optional equipment and driven components.



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Engine Performance Curve FR92154

General	
Certification:	GB 17691-2005
Compression Ratio:	17.3:1
Air Intake System	
Max. temperature rise between ambient air and turbo air inlet:	15
Medium Duty: kPa	2.9
Heavy Duty:	3.7
Max. intake restriction with dirty filter: kPa	6.2
Charge Air Cooling	
Max. temperature rise between ambient air and intake manifold: °C	30
Max. △P between turbo out and manifold in:kPa	13.5
Intake pipe size normally acceptable:	65
Exhaust System	
Max. back pressure imposed by complete exhaust system: kPa	10
Exhaust pipe size normally accepable:	75
Cold Start Performance	
Min. unaided cold start temperature: -12 °C @ 12	20 average rpm
Min. aided cold start temperature:35 °C @ 12	20 average rpm
Performance Data	
Idle Speed:rpm	600 - 800
Maximum no load governed speed:	2850
Maximum over speed capability(15secs max.): rpm	4200
Maximum altitude for continuous operation: m	4700
Clutch engagement torque at 800rpm: - N.m	450
When using exhaust brakes:	100
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Exhaust pressure, at 2850rpm, at turbocharger outlet, must not exceed: kPa	-
Approximate engine retardation: kW	TBD

Engine Oil Air to		Air From Turbo		Exhaust E	Exhaust Fuel	Coolant	Heat Rejection		Friction		
Speed RPM	Pressure kPa	Turbo m³/min	Flow kg/min	Pressurek Pa	Flow m³/min	Temp ℃	Consumption kg/hr	Flow I/min	Coolant kW	Air kW	Power kW
2500	418.9	10.17		152.1		516.854		246.5667	63.7	19.4	23.0
2300	414.7	9.72		154.3		556.891		226.6333	66.9	20.4	19.0
1400	332.5	5.93		136.8		552.47		140.9667	51.68178	11.0327	11.0

All values within ±5% Base engine data refer to Datasheet D323002BX03

All data subject to change without notice. Dongfeng Cummins Engine Co., Ltd